

FEDERAL COMMUNICATIONS COMMISSION
Experimental Licensing Branch
445 12th Street, S.W., Room 7A-321
Washington, D.C. 20554

April 08, 2010

Attn: Fritz Amtsberg
Oceantronics, Inc.
711 N. Nimitz Hwy
Honolulu, HI 95817
United States

DISMISSED-WITHOUT PREJUDICE

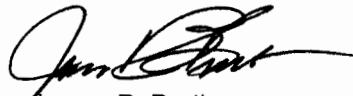
Dear Fritz Amtsberg,

This refers to application, File No. 0593-EX-ST-2009, for an experimental authorization.

You are advised that the Commission is unable to grant your application for the facilities requested. We have not received your response to the questions from our International Bureau. Accordingly, we can not proceed any further. If you still need to test, please refile and include the data requested.

Responses to this correspondence must contain the Reference number : 10585

Sincerely,

A handwritten signature in black ink, appearing to read "James R. Burtle", with a stylized flourish at the end.

James R. Burtle
Chief
Experimental Licensing Branch

- No response

Anthony Serafini

From: Paul Locke
Sent: Friday, January 22, 2010 5:54 PM
To: francis@oceantronics.net
Cc: Paul Locke; Anthony Serafini; Shahnaz Ghavami; Howard Griboff
Subject: Oceantronics OET File Number 0593-EX-ST-2009

Dear Mr. Yoshida

Re: Application for experimental STA 0593-EX-ST-2009

Mr. Serafini of OET has passed your application to the International Bureau for coordination. The International Bureau is responsible for the licensing and protection of US satellite systems. In this situation we are concerned with the potential for interference to satellites on the geostationary orbit (GSO) that are adjacent to the satellite, or satellites, you will be using. Before we can approve your experimental application we will require some additional information.

Perhaps the simplest and most direct approach would be for you to obtain a letter from the operator of the satellite you will be using that states the following: (1) that the satellite operator is aware of the technical parameters of your experimental transmitter/antenna combination; (2) that the expected off-axis eirp spectral density produced by your experiment, including any antenna mis-pointing, will be within the limits permitted by the existing coordination agreements for adjacent satellites within four (4) degrees of your target satellite(s). After your satellite operator, or operators, supply you with this letter, email a copy to me. I will coordinate the letter within the International Bureau and we will forward our decision to Mr. Serafini.

If this approach proves troublesome, I suggest you review the rules for Earth Stations on Vessels (ESV) operating in the Ku-band at the following URL:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=83e96aec4eba2c9475dab7bede4128c3&rgn=div8&view=text&node=47:2.0.1.1.5.3>

Most of these rules are designed to protect GSO satellites near to the satellite you will be operating with. The requirements that must be met are listed under paragraph (a) and the documentation required to demonstrate you have met the requirements are under paragraph (b). The letter I suggested in the previous paragraph is described in rules paragraphs 25.222(a)(2) and 25.222(b)(2). This approach is typically reserved for a transmitter that would exceed the detailed eirp spectral-density limits given in 25.222(a)(1). However, for an experimental STA it would be an acceptable way of proving no interference should come to other nearby GSO satellites.

If you have any questions please contact me at 571-236-5321 (9AM to 6PM east coast time, please).

By the way, I have assumed that the earth station will be mounted on a ship because of the center position of the operating area that you provided in your application and because of your sponsor, however, your application does not actually specify ship-mounted and your area of operation is about half land. If this antenna is to be mounted on a land vehicle the same general rules apply, however, the specific land vehicle rules are in Section 25.226. Because

there are separate sets of rules for land and sea-going vehicles it would be a good idea specify which you are using.

Thank you

Paul Locke

Assistant Division Chief for Engineering

International Bureau/Policy Division

Federal Communication Commission